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MISSION COVERAGE STATISTICS

KH-4 MISSION 1110-2

31 MAY, 1-8 JUNE 1970

TCS-20251/70

JUNE 1970

COPY 209

15 PAGES

MCS-007/70

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**DECLASS REVIEW by
NIMA/DOD**

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INTRODUCTION

This publication provides preliminary coverage data, Greenwich Mean Time of passes, correlation of photographic coverage with WAC chart areas, coverage plots, and preliminary data from Mission 1110-2, dated 31 May, 1-8 June 1970 (GMT).

Plot sheets are arranged by geographic areas as indicated by the index tabs. Coverage of the Eurasian land mass is divided into days to eliminate illegible overprinting.

Plots for the forward and aft cameras are portrayed as stereoscopic and/or monoscopic passes. Stereo passes will be shown with the forward-looking camera frame numbers inside the pass outline and the corresponding aft-looking camera frame outside the pass outline. In the event of monoscopic coverage, only the frame numbers of the operative camera will appear. The relative location of photographs falling between the numbered frames may be approximated by interpolation.

All frames are indicated on the plot sheets, regardless of water coverage, total cloud cover, or a complete lack of imagery.

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PRELIMINARY MISSION DATA

Mission Number: 1110-2

Launch Date/Time (GMT): 20 May 1970/2135Z

Photo Dates (GMT): 31 May, 1-8 June 1970

Recovery Date/Time (GMT): 8 June 1970/2230Z

Operational Photo Passes: 43

Operational Altitude Limits: 93 - 105 Nautical Miles

Photo Scale Range: 1:287,491 - 1:326,987

Operational Ground Coverage (Fwd and Aft):

- a. Linear Nautical Miles 46,944
- b. Square Nautical Miles 6,384,384

Frames:

- a. Operational
 - Fwd-Looking 2,955
 - Aft-Looking 2,903
- b. Stellar 5,692
- c. Index 2,846

Operational Imagery Footage (Fwd and Aft): 14,535

Anomalies: Both the fwd and aft camera photography display a focus problem. The stellar and the index record are affected by severe static fogging (similar problems were experienced on Msn. 1110-1). These conditions are explained below.

Vehicle Attitude: Normal

Image Quality:

a. Main Camera - The image quality of both main camera records is less than that of an average KH-4B mission. At magnifications above 25X, most of the imagery exhibits an out-of-focus appearance. At magnifications below 25X, most objects appear distinct and clearly defined.

b. Stellar/Index Cameras - The stellar and index cameras were operational throughout the mission. The imagery from both cameras is degraded throughout by intense static fogging. This fogging is not expected to seriously hinder the usability of the stellar record; however, the fogging on the index record renders up to 50 percent of some frames unusable.

Cloud-Free Coverage: Approximately 75 percent of the entire mission is cloud-free.

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EURASIA

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AFRICA

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SOUTH AMERICA

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 SOUTHEAST ASIA

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